



## Opportunities for optics within tomorrow's high-tech

Hanson, Steen Grüner

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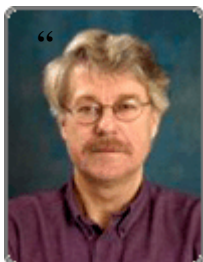
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## ICETI2011 Keynote Speeches

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### **“ Opportunities for optics within tomorrow’s high-tech.**

Prof. Steen G. Hanson, DTU Fotonik, Department of Photonics Engineering, Denmark

The use of miniaturized optical sensors as input devices based on speckle phenomena will be discussed alongside with some considerations on the path to industrial implementation. Based on two examples from the field of *cursor control systems*, the future opportunities for dissemination into industrial applications will be discussed, in particular, optically based systems for monitoring dynamics of solid structures, e.g. rotational speed, torsional vibrations and velocity.

Here, the commonly restrictions for a successful implementation, i.e. reliability, miniaturization, accuracy and especially price will be dealt with. Besides, some general remarks on my observations on bringing ideas from the lab into commercial products will be offered.

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1972	Graduated from the Technical University of Denmark (physics). Thesis on holographic interferometry of plasmas.
1973-74	Employed by Risø National Laboratory Laser Section as Ph.D. student.
1974	PhD thesis: Theoretical and practical investigations of elastic scattering of laser light, October 1974.
1974-75	Military service at the Danish Defence Research Establishment.
1975-80	Employed by the Danish Air Material Command.
1980	Employed by Risø National Laboratory.
1984-94	Section Head of Laser Physics Section Risø National Laboratory.
2004-	Research Specialist at Risø National Laboratory
2004-	Chairman of the Danish Optical Society
2006 –	Research Specialist at DTU Fotonik. (Danish Technical University)
2008 –	Professor at the Danish Technical University, Fotonik Department.

